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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of

Takeshi KONDO, et al.

Serial No. 09/322,333

Filed: May 28, 1999

For: Pressure Sensitive Adhesive Sheet and Method of Use thereof

Group Art Unit: 1714

Examiner: Frederick G. Dean

Honorable Commissioner of Patents and Trademarks
United States Patent and Trademark Office
Washington, D. C. 20231

Sir:

DECLARATION UNDER 37 CFR 1.132

We, Takeshi Kondo and Kouichi Nagamoto, declare and state that:

1.1. I, Takeshi Kondo, was graduated from the graduate school of University of Shinshu, Engineering Department, majoring in new material develop chemistry and received a degree of Master of Engineering, in March 1994.

Since April 1994, I have been an employee of Lintec Corporation. From 1995, I have been engaged in the research and development work concerning new material for electric/communication device field.

I am a co-inventor of the invention described in the above-identified application.

1.2. I, Nagamoto Kouichi, was graduated from the graduate school of Kyushu Institute Technology, Engineering Department, majoring in material engineering and received a degree of Master of Engineering, in March 1995.

Since April 1995, I have been an employee of Lintec Corporation. Till the present time, I have been engaged in the research and development work concerning new material for electric/communication device field.

I am a co-inventor of the invention described in EP 0 798 355.

2. We carried out the following experiment in order to demonstrate the superiority of the process according to the present application.

Example 1 of EP 0 798 355 was reproduced to prepare base sheet. The value "tan δ" of resulting base sheet was measured in accordance with the method described in the present specification.

Results are summarized in the following table together with Examples 1 to 3 of the present specification.

Data plots are attached herewith.

	Urethane Acrylate Oligomer	Monomer	Photoinitiater	Max. value of tan δ (-5～80℃)	tan δ at temperature of							Back grinding aptitude
					0℃	25℃	40℃	50℃	60℃	70℃	80℃	
USSN.09/322,333 Example 1	Arakawa Chem. Ind. Urethane acrylate oligomer Mw=5000 50p.h.r.	Isobornyl acrylate 50p.h.r.	Irgacure184 2p.h.r.	0.78	0.15	0.31	0.52	0.71	0.78	0.65	0.52	Good
USSN.09/322,333 Example 2		Morpholinyl acrylate 50p.h.r.	Irgacure184 2p.h.r.	0.85	0.08	0.19	0.33	0.5	0.69	0.84	0.84	Good
USSN.09/322,333 Example 3		Isobornyl acrylate 25p.h.r. Morpholinyl acrylate 25p.h.r.	Irgacure184 2p.h.r.	1.18	0.08	0.26	0.53	0.86	1.08	1.0	0.68	Good
EP 0 798 355 Example 1	Nippon Kayaku Co. Urethane acrylate oligomer UX3301、Mw=8000 60p.h.r.	Morpholinyl acrylate 40p.h.r.	Irgacure184 4p.h.r.	0.69	0.09	0.15	0.21	0.27	0.36	0.52	0.69	dimpled

4. From the results of the above Experiment and based on our best knowledge and experience in this field, we conclude that the base sheet prepared in Example 1 of EP 0 798 355 had maximum value of dynamic viscoelasticity tan δ of 0.69 which does not satisfy the invention claimed in the amended claims, and is inferior in "back grinding aptitude". Thus, unexpected effects attained by the present invention are clearly demonstrated by the above experimental work.

The undersigned declare further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

This 11th day of April, 2001

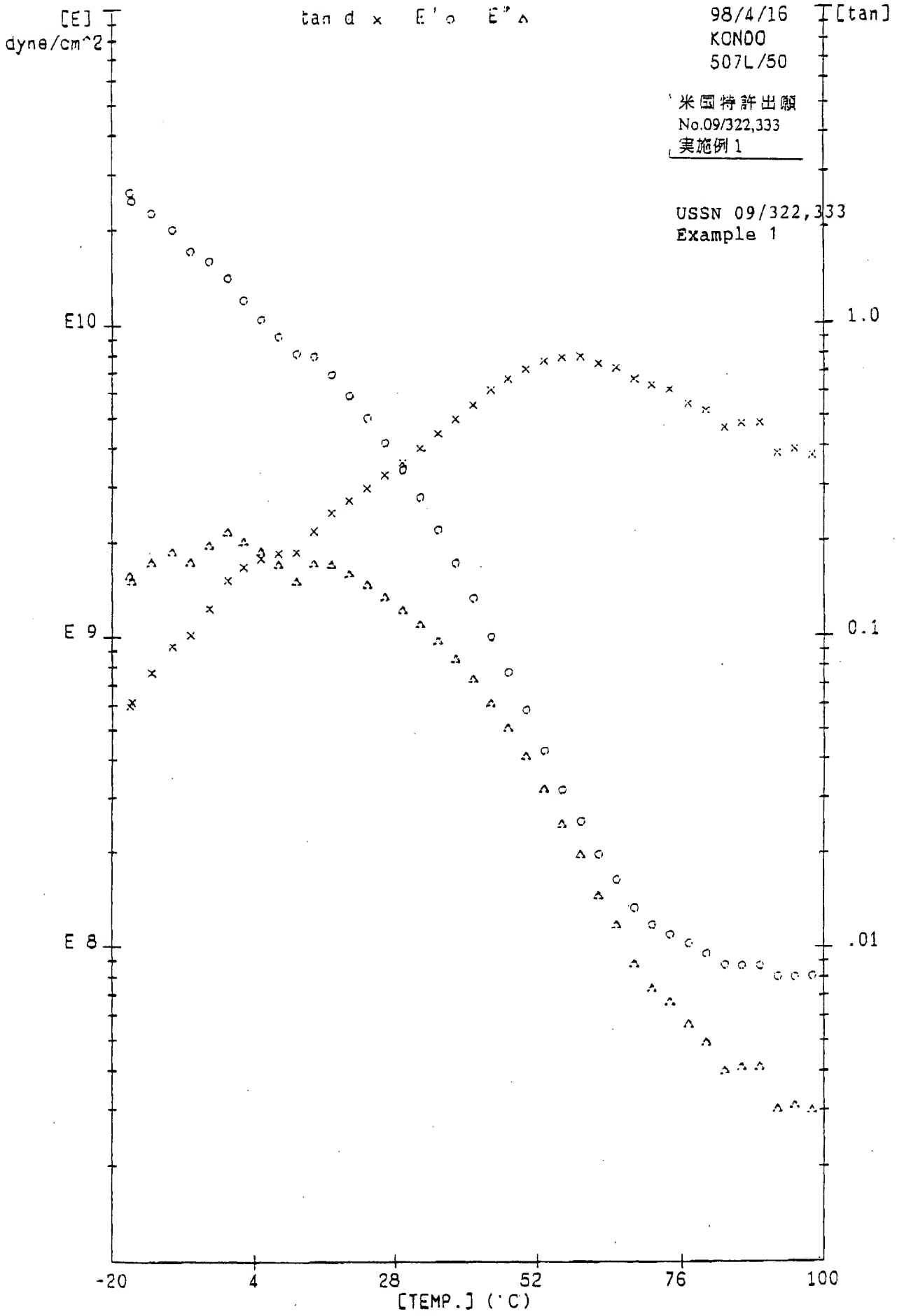
Takeshi Kondo

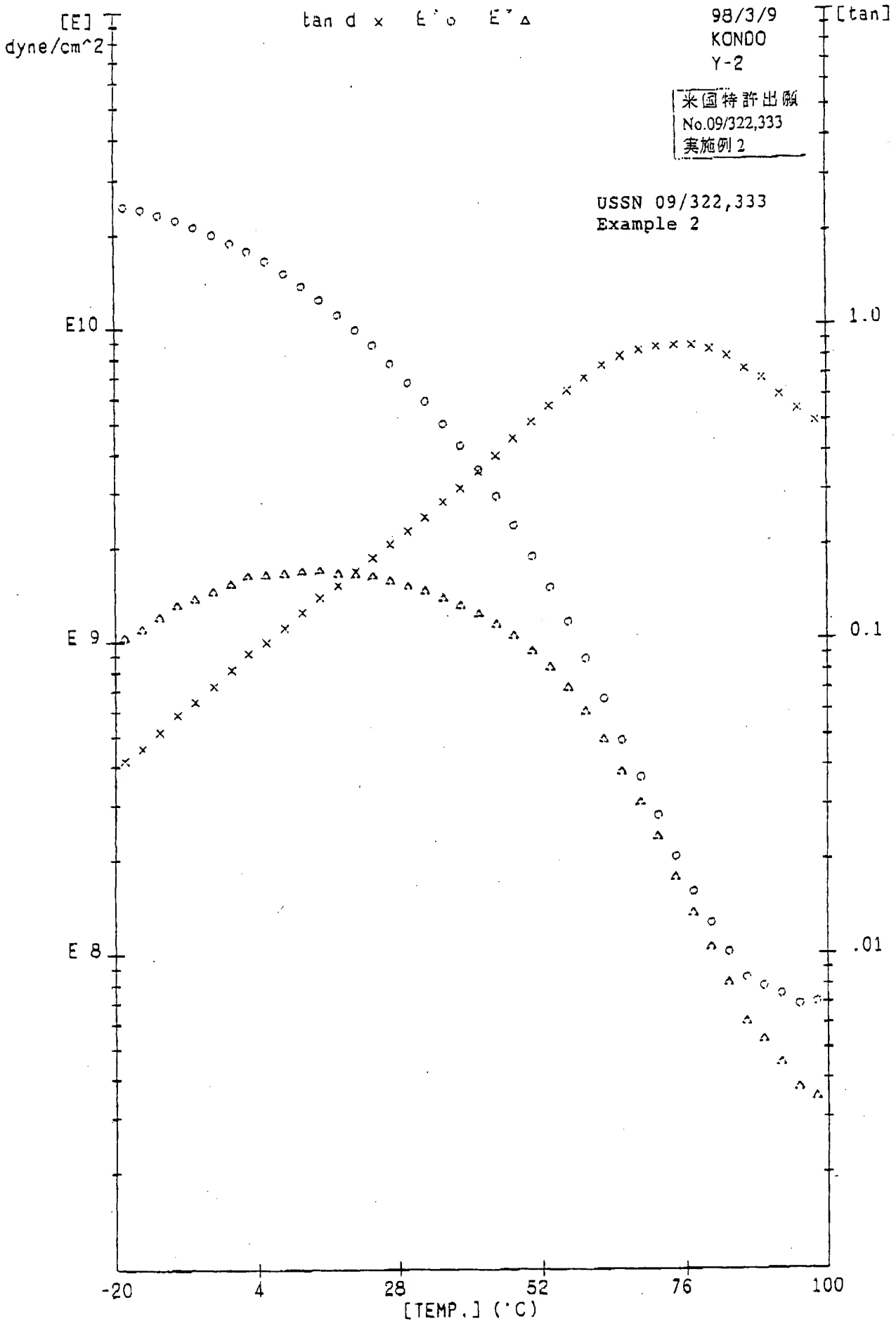
Takeshi KONDO

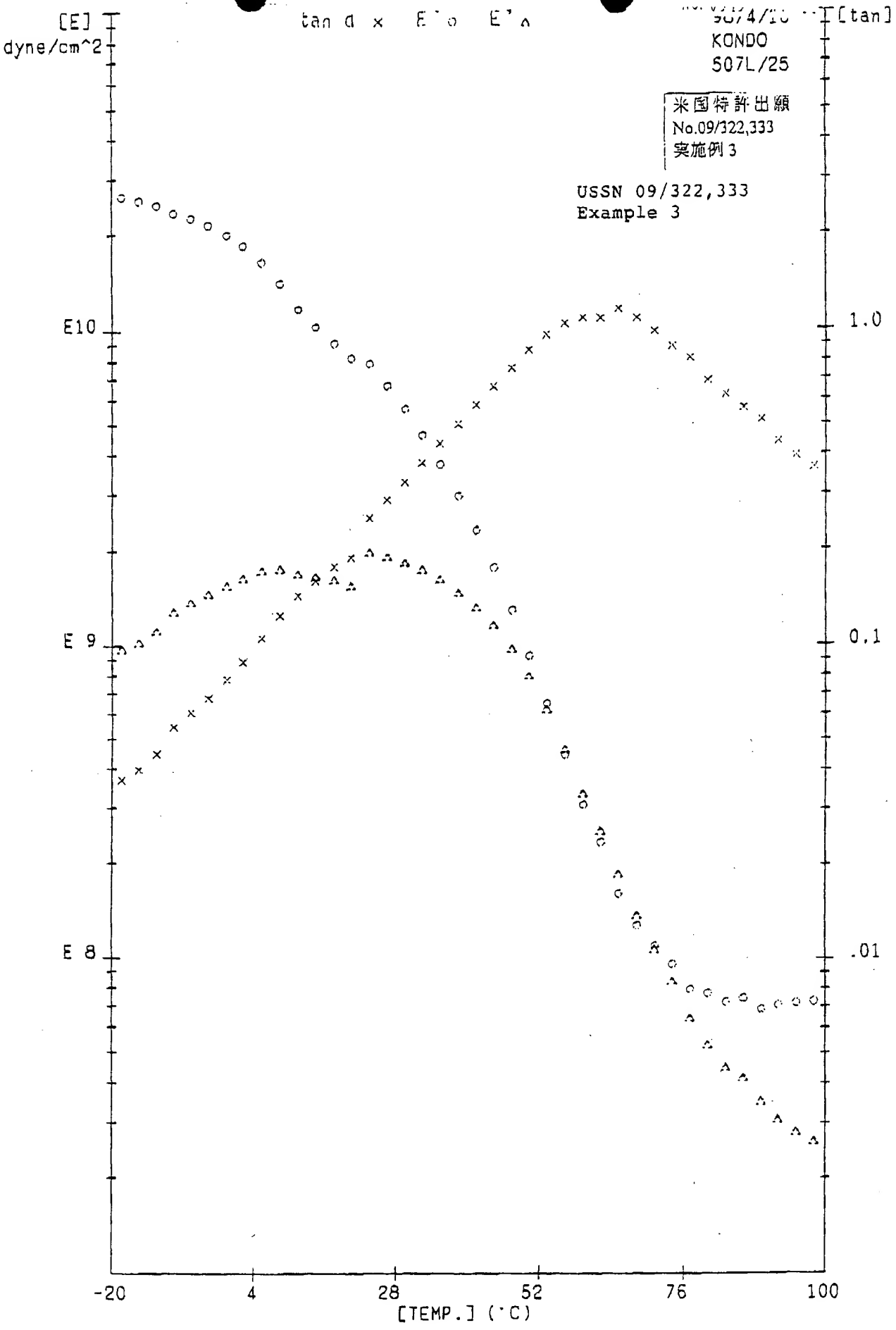
This 11th day of April, 2001

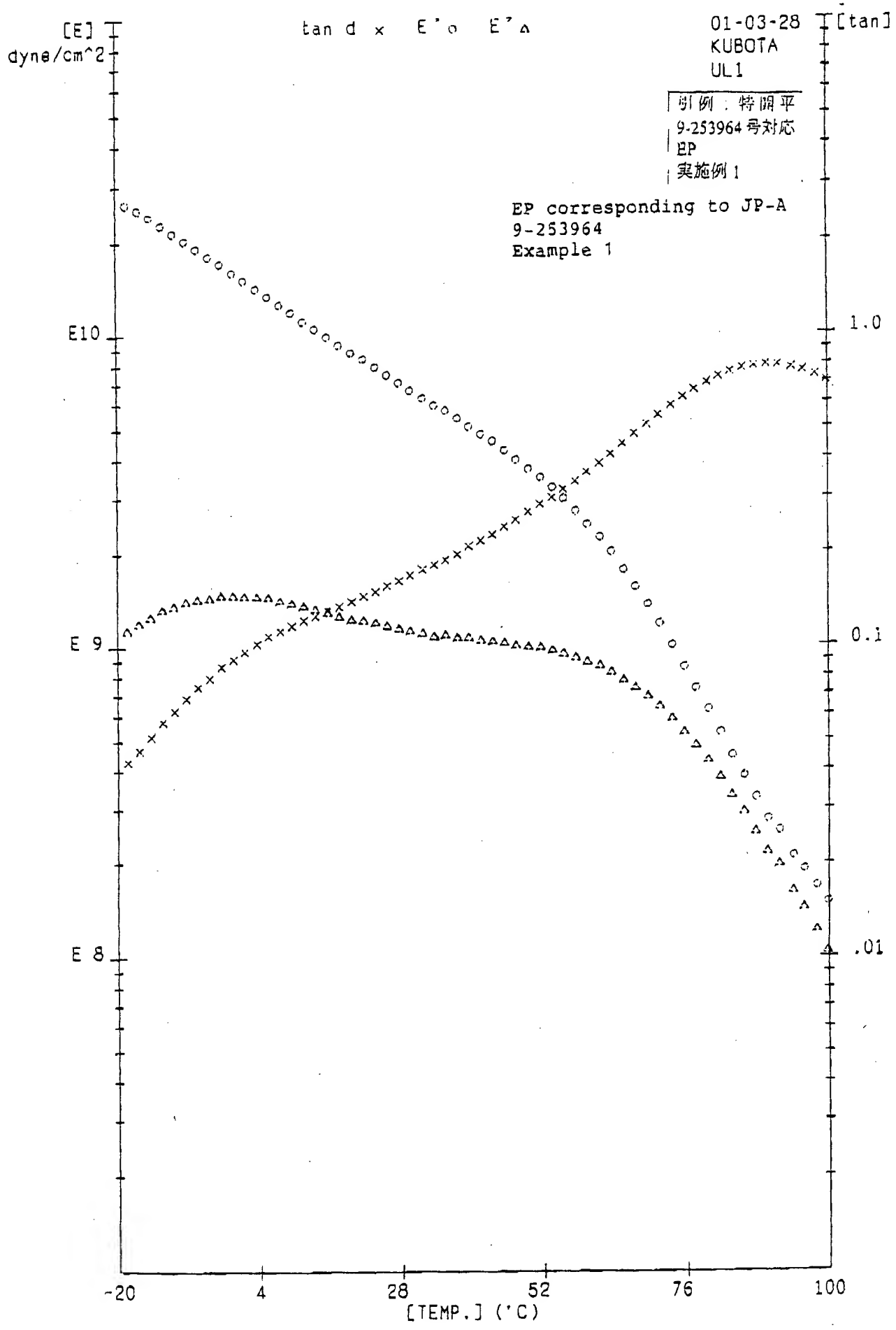
Kouichi Nagamoto

Kouichi NAGAMOTO


[E]
dyne/cm^2
tan d × E'○ E"△
98/4/16
KONDO
507L/50
米国特許出願
No.09/322,333
実施例 1
USSN 09/322,333
Example 1
[tan]
E10
E 9
E 8
1.0
0.1
.01
-20
4
28
52
76
100
[TEMP.] (°C)


[E]
dyne/cm^2
tan d × E'o E"Δ
98/3/9
KONDO
Y-2
米国特許出願
No.09/322,333
実施例2
USSN 09/322,333
Example 2
[tan]
E10
E 9
E 8
1.0
0.1
.01
-20
4
28
52
76
100
[TEMP.] (°C)


[E]
dyne/cm^2
tan d × E'o E'n
[tan]
KONDO
S07L/25
米国特許出願
No.09/322,333
実施例3
USSN 09/322,333
Example 3
E10
E 9
E 8
1.0
0.1
.01
-20
4
28
52
76
100
[TEMP.] (°C)


tan d × E'o E'a
01-03-28
KUBOTA
UL1
引例：特開平
9-253964号対応
EP
実施例1
EP corresponding to JP-A
9-253964
Example 1
[E]
dyne/cm^2
[tan]
E10
E 9
E 8
1.0
0.1
.01
-20
4
28
52
76
100
[TEMP.] (°C)